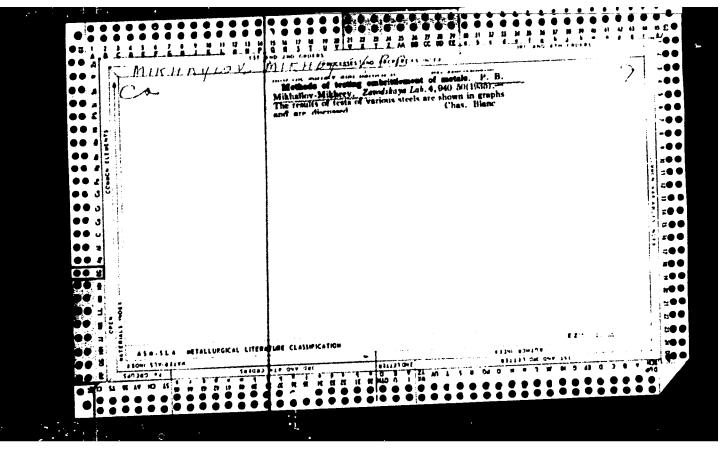
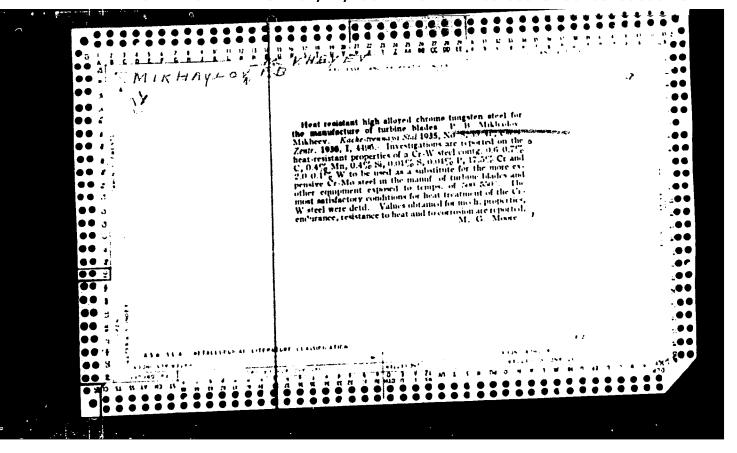
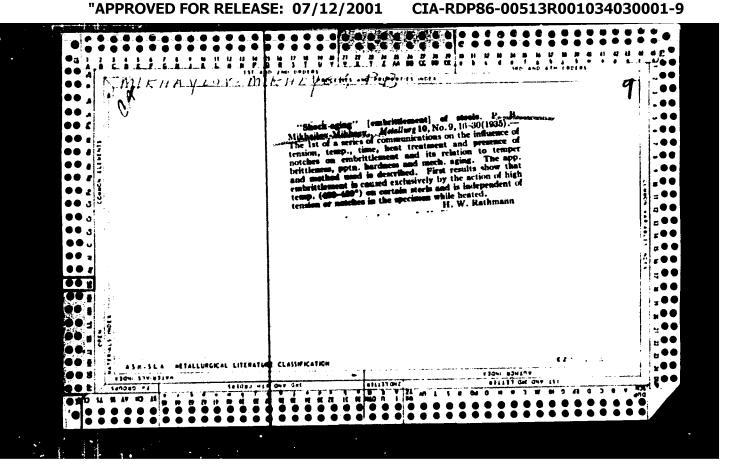


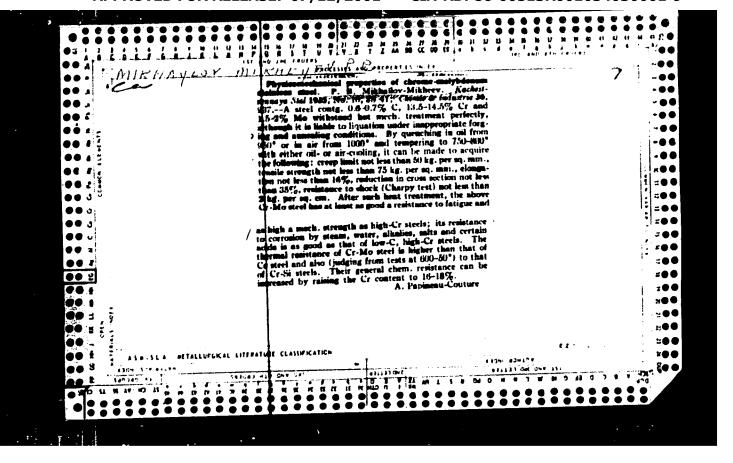
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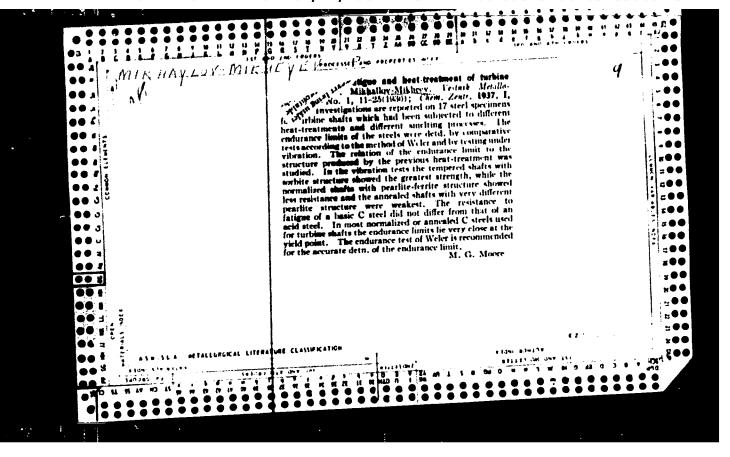


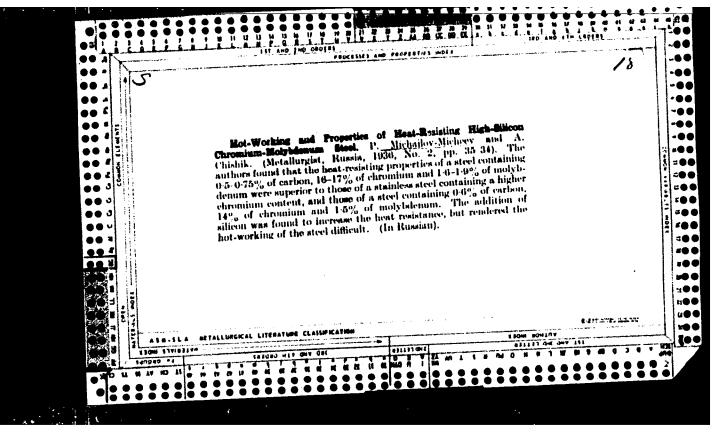


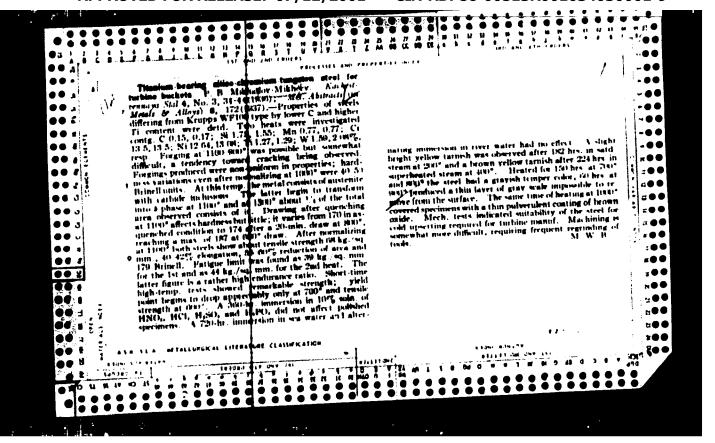


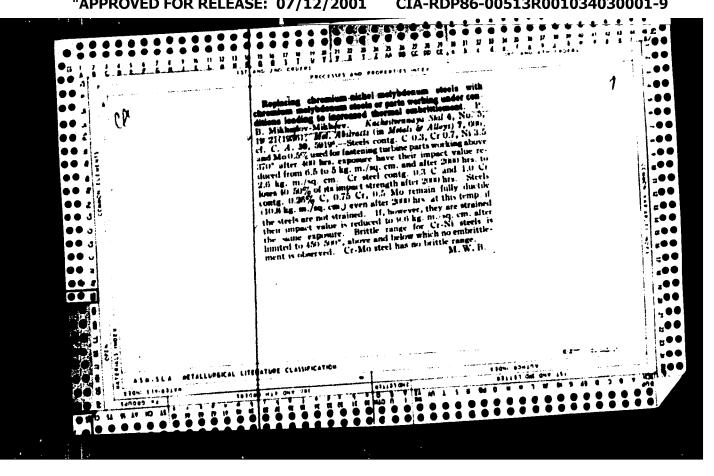
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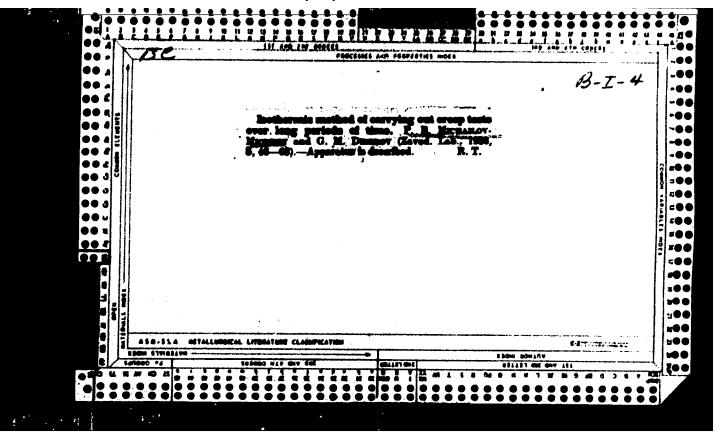


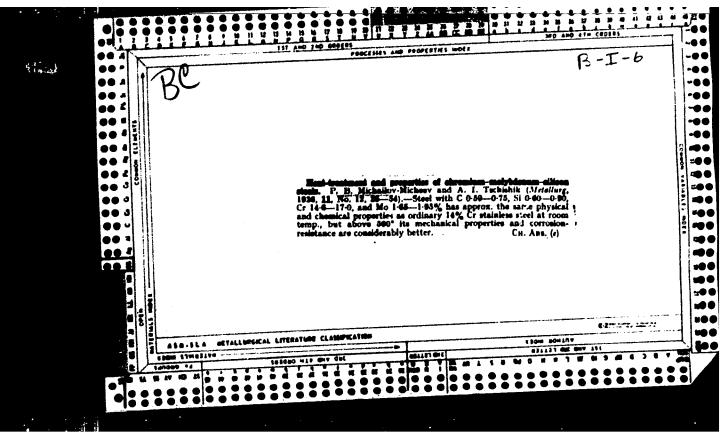




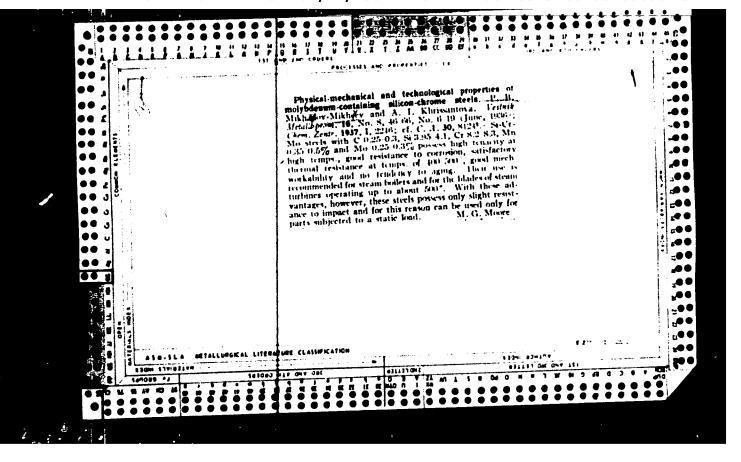








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Copper steel. Leningrad, Bos. nauchno-tekhn. ied-vollit-ry pechernol i tovotnoi metallurgii, 1941. (Nic 52-162)
Collation of the original as determined from to film: 271 p.
Microfilm TN-6

MIKHAYLOV MIKEYEV, Prokopiy Borisovich, doktor tekhnicheskikh nauk;

MES'KIN, V.S., doktor tekhnicheskikh nauk, retsenzent; VYAZHIKOV,

N.F., kandidat tekhnicheskikh nauk, redaktor; VASIL'YEVA, V.P.,

redaktor izdatel'stva; POL'SKAYA, R.G., tekhnciehskiy redaktor;

SYCHEVA, O.V., tekhnicheskiy redaktor

[Thermal brittleness of steel] Teplovaia khrupkost' stali. Moskva. Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 114 p. (Steel--Brittleness) (MIRA 9:10)

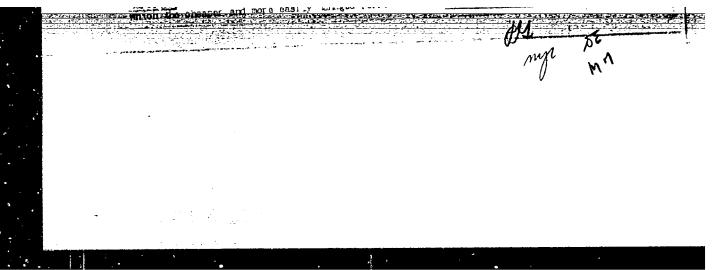
MIKHAYLOV-MIKHERN P.B.

3532. HODERN TREMES IN THE DEVELOPMENT AND USE OF HEAT RESISTING

**ATERIALS IN TURBINE OMSTRUCTION. HUgglior Hickory P.A.:

Treploemergetika (Heat Pur Engine, Moscovi), Dec. 1956, 3-10). Data on heat
Treploemergetika (Heat Pur Engine, Moscovi), Dec. 1956, 3-10). Data on heat
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Category: USSR/Solid State Physics - Mechanical properties of crystals and poly- E-9

crystalline compounds

Abs Jour: Ref Zhur - Fizika, No 1, 1957 No 1369

Author: Mikhaylov-Mikheyev, P.B.

Title : On the Thermal and Tempering Brittleness of Ferrite (Pearlite) Steel

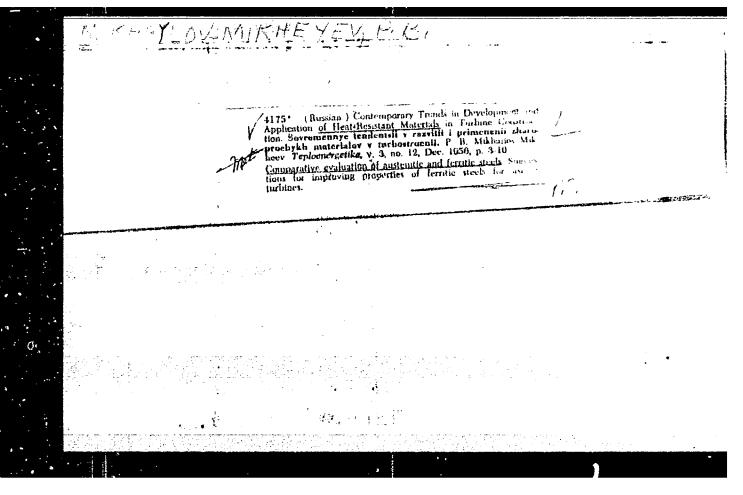
Orig Pub: Metallovedeniye i ohrabotka metallov, 1956, No 2, 23-33

Abstract : Based on data in the literature and on his own experiments, the author

proposes that the thermal and tempering brittleness are identical in nature and their development is determined by the same factors, namely temperature and time. This type of brittleness is merely one of the manifestations of cold-shortness, observed in all ferrite steels under impact tests at low temperatures. Under the influence of the processes that cause thermal and tempering brittleness, the impact viscosity vs. temperature test curves shift towards higher temperatures, and this causes the brittle state to start manifesting itself at room temperatures. There is some doubt as to whether thermal brittleness is caused by the separation of finely-dispersed grains of the new phase. It is more probable that the thermal brittleness is rpoduced by segregation of atoms of individual elements of the solid solution towards the grain boundaries without the separation of individual crystalline phases. Bib-

liography, 18 titles.

Card : 1/1



MIKHAYLOV-MIKHMYRV, P.B.

Evaluating steel sensitiveness to temper and thermal brittleness. Zav. lab.22 no.7:849-853 '56. (MLRA 9:12)

 Hevskiy mashinostroitel'nyy zavod imeni V.I.Lenima. (Steel--Testing)

MIKHAYLOV-MIKHEYEW P.B. doktor tekhnicheskikh nauk.

Titanium and its alloys; survey of technical periodicals.

Vest. mash. 36 no.9:70-73 S '56. (MLRA 9:10)

(Titanium alloys--Metallurgy)

YEVANGULOVA, Yevgeniya Pavlokma; FOGEL', A.A., kandidat tekhnicheskikh nauk, redaktor; SPITSYN, M.A., kandidat tekhnicheskikh nauk, redaktor; SLUKHOTSKIY, A.Ye., kandidat tekhnicheskikh nauk, redaktor; GLUKHANOV, N.P., kandidat tekhnicheskikh nauk, redaktor; BAMUNKR, A.V., inshener, redaktor; SINONOVSKIY, N.Z., redaktor isdatel'stva; NIKHAYLOV-MIKHENY, P.B., doktor tekhnicheskikh nauk, retsensent; SICHEVA, O.V., tekhnicheskiy redaktor.

[Quality centrol of surface hardening] Kontrol' kachestva peverkhnostnoi sakalki, Isd. 2-ee, ispr. i dop. Ped.red. A.A.
Fegelia. Moskva, Gos.nauchno-tekhn.isd-ve mashimestroit.

lit-v, 1957. 33 p. (Bibliotechka vysokochastotnika-termista, no5)
(MIRA 10:6)

(Metals--Hardening) (Quality control)

PHASE I BOOK EXPLOITATION 1152

Mikhaylov-Mikheyev, Prokopiy Borisovich, Doctor of Technical Sciences

Novyy promyshlennyy metall - titan (A New Industrial Metal, Titanium) Moscow, Mashgis, 1958. 32 p. 5,500 copies printed.

Reviewer: Vyaznikov, N.F., Candidate of Technical Sciences; Ed.: Chechulin, B.B., Engineer; Ed. of Publishing House: Simonovskiy, N.Z.; Tech. Ed.: Sokolova, L.V.; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): Fetisov, F.I., Engineer.

PURPOSE: This booklet is intended to acquaint engineers and technicians in the machine-building industry with the properties of titanium, methods of extracting it, and the technology of precessing it.

COVERAGE: The booklet deals with the physical and chemical properties of titanium, methods of extracting it from ores, alloying of titanium with other elements, methods of strengthening titanium, mechanical properties of the metal at ordinary and elevated temperatures, industrial processing of titanium articles, safety techniques, and applications and production costs of titanium.

Card 1/3

1152 A New Industrial Metal, Titanium No personalities are mentioned. There are 13 references, of which 9 are Soviet, 3 English, and 1 German. TABLE OF CONTENTS: 3 Preface 5 Introduction 6 1. Physical and Chemical Characteristics of Titanium 7 2. Distribution of Titanium in Nature 8 3. Metallurgy of Titanium 11 4. Titanium Alloys 16 5. Mechanical Properties of Titanium 6. Strengthening of Titanium by Alloying and Heat 17 Treatment Card 2/3

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9•	Friction Properties. Resistance of Titanium to Erosion	21
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12.	Applications of Titanium. Production Costs	31
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PHASE I BOOK EXPLOITATION

SOV/1411

Mikhaylov-Mikheyev, Prokopiy Borisovich, Doctor of Technical Sciences

Metall gazovykh turbin (Metal for Gas Turbines) Moscow, Mashgiz, 1958. 351 p. 5,000 copies printed.

Reviewer: Bolkhovitinov, N.F., Doctor of Technical Sciences, Professor; Ed.: Vyaznikov, N.F., Candidate of Technical Sciences; Ed. of Publishing House: Vasil'yeva, V.P.; Tech. Ed.: Speranskaya, O.V.; Managing Ed. for Literature on the Design and Operation of Machinery (Leningrad Division, Mashgiz): Fetisov, F.I., Engineer.

PURPOSE: This book is intended for engineers working in the fields of design, manufacture, and operation of gas turbines, and for metallurgists and manufacturers of heat-resistant materials. It may also be useful for students of related specialized courses at advanced technical schools.

COVERAGE: The book describes the present state of the problems of heat-resistant materials for gas turbines, on the basis of a systematic analysis of data published in the technical literature during the last ten years. Along with

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Metal for Gas Turbines

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a consideration of the properties required of metals, their service conditions, and the metallurgical characteristics necessary in the memmiceture of turbine components, the book discusses the basic theoretical laws of heat resistance and the alloying of heat-resistant materials. Detailed characteristics of the resistant properties of a large number of industrial types of alloys used in domestic and foreign gas-turbine construction are given. There are 271 references, 80 of which are Soviet (3 translations from English), 165 English, 23 German, and 3 French.

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	of gas turbines	8
3.	Present state of the problem of heat-resistant materials	20
4.	Problem of heat-resistant materials in stationary turbine construction	27
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GOLOVIN, Georgiy Fedorovich; ZAMYATNIN, Mikhail Mikhaylovich; LEVIN, Ye.Ye., kand.tekhn.nauk, retsenzent; MIKHAYLOV-MIKHEYEV, P.B., doktor tekhn.nauk, red.; VASIL'YEVA, V.P., red.izd-va; POL'SKAYA, R.G., tekhn.red.

[High-frequency heat treatment; metals and the technology of heat treatment] Vysokochastotnaia termicheskaia obrabotka; voprosy metallovedeniia i tekhnologii. Moskva, Gos.nauchnotekhn.isd-vo mashinostroit.lit-ry, 1959. 185 p. (MIRA 12:5) (Steel--Heat treatment) (Induction heating)

S0V/96--59-10-1/22

AUTHOR: Mikhaylov-Mikheyev, P.B, (Dr. Tech. Sci.)

TITLE: Metallurgical Advances in Heat-resisting Steels and

Alloys for Gas-turbine Construction

PERIODICAL: Teploenergetika, 1959, Nr 10, pp 3-8 (USSR)

ABSTRACT: This article gives a general review of heat-resistant steels and alloys, both Soviet and foreign. Two different sets of problems are posed in the development of steels for aviation and industrial gas-turbines. For any given mechanical stress the operating temperature depends on the service life required. This is one of the main reasons why gas turbines for a life of 100 000 hours cannot yet use temperatures higher than 800-815 °C, whilst turbines for transport, with lives of 1000 to 5000 hours, can use gas temperatures of 900-925 °C. The development of heatresistant alloys for very long service in industrial gasturbines presents special difficulties which have not yet been fully overcome. The present state of development of heat-resistant steels and alloys may be judged from the graphs given in Fig 1. They show temperature against stress for a life of 1000 hours for a number of different Card 1/8 types of steel. It will be noted that the temperature

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Metallurgical Advances in Heat-resisting Steels and Alloys for Gas-turbine Construction

range of 500-600 °C, which until recently required the use of high-alloy austenitic steels, can now be covered by cheap low- and medium-alloy steels of the pearlitic and martensitic classes. Tests of ultimate strength at 10) hours showed that the best modern pearlitic steel, such as grades EI415 and R2, can be operated for long periods at 550 °C at a stress of 15.18 kg/mm2 for steel EI415 and 12-14 kg/mm2 for steel R2. Pearlitic steels to withstand even higher temperatures are being developed in the Soviet Union; for example, steels Pl and P3 can be operated at stresses of 9 and 8 kg/mm2 respectively at a temperature of 600 °C. A number of grades of stainless steel containing 12% chromium are of interest for use in the temperature range of 550-600 °C. They have better resistance to corrosion than pearlitic steel. which are also alloyed with niobium, such as grades 18KhllMFB and 18KhllMV&B and the British grades N.46 and Rex 448, can be used at stresses of 10-12 kg/mm2, at 600 og. A brief discussion then follows of multi-alloyed austenitic steels. For instance, steel EI726 containing 19% Ni, 2.5% W, 1.1% Mb and 0.025% B have greater long-term

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Metallurgical Advances in Heat-resisting Steels and Alloys for Gas-turbine Construction

strength at 650 and 700 °C than such steels as EI434 or G18B, which are widely used for gas turbines. Successful austenitic casting steels have also been developed, such as TsZh6, suitable for a stress of 8 kg/mm² at 750 °C, and TsZh8, suitable for a stress of 8.5 kg/mm² at a temperature of 700 °C. Nickel steels are then discussed. Depending on the working stress, nickel steels can be used at temperatures up to 800-850 oc or even higher if the life is short. There are a number of nickel alloys such as the British alloy Nimonic 100, the American alloy Inconel 700 and Soviet grades EI826 and EI827, for which the ultimate strength at 100 hours and a temperature of 815-850 oc reaches 30 - 25 kg/mm²; and at $870-900 \text{ oc}, 20 - 15 \text{ kg/mm}^2.$ Still better nickel alloys exist such as Soviet grades VZh36-300, ZhS6, ZhS6K, and E1857, whose ultimate strength at 100 hours is greater than 20 kg/mm² at 900 oC and 10 kg/mm² at 950-1000 oC. The most heat-resistant of modern special alloys, at any rate for short service life, are those based on cobalt. They are not so good as nickel alloys in the temperature

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range 700-800 °C but have appreciatly better long-term strength up to 900-950 °C. The Soviet nickel alloys VZh36-300, ZhS6 and ZhS6K not only have better performance at 900-950 oC than foreign nickel alloys such as Nimonia 100, Incomel 700 and GMR-235, but are also better than such heat-resistant alloys as the American cobalt alloy Increasing knowledge of the theory of multicomponent metallic systems has resulted in the development of a series of high-temperature alloys containing little or no molybdenum, cobalt or nicbium; for example. Soviet grade E1726 contains no molybdenum. An important feature grade E1726 contains no molybdenum. in the development of new heat-resistant steels has been the use of new methods of production, such as melting in vacuo or neutral atmosphere, and the use of pure metals Improved methods of hot working offer the for alloying. possibility of further advance. For example, a gas-turbine rotor weighing 22 tons has been forged by the Novo-Kramatorsky works from an ingot weighing 38 tons of steel Discs and forgings have also been made of grade E1802. Contemporary theory of heatsteels EI612 and EI765. resistant alloys is based on empirical relationships

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> between the heat resistance and structure of the alloys. The basic principle is the correct distribution of alloying elements between the two main structures, solid solution and secondary phase. Multi-component systems that contain elements for raising the recrystallization temperature of the solid solution and elements that promote the formation of relatively infusible secondary phases have the best creep strength. The use of a number of components in high-alloy steels is particularly important. Various classes of steel are then considered, starting with pearlitic steels. The alloying effect of different elements is discussed with reference to Fig 2, taken from a paper by Austin, John and Lindsey. Pearlitic steels of the maximum heat-resistance are obtained if molybdenum, tungsten and chromium are all in solid solution with iron so that their carbides are formed. The influence of vanadium is examined with reference to the curves of Fig 3, taken from a paper by Kolbeck and Wright. The effects of heat treatment on steels of this class are discussed. When appropriately heat-treated, one of the most heat-resistant pearlitic steels is

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Metallurgical Advances in Heat-resisting Steels and Alloys for Gas-turbine Construction

grade EI415. It has the micro-structure illustrated in Fig 4, which is taken from a paper by Kolbeck and Wright. Steels containing 12% chromium are then discussed. influence of chromium content on creep strength is examined with reference to the graph of Fig 5 taken from a paper by Kolbeck and Wright. Austenitic steels and Brief mention is made of a alloys are then discussed. number of alloying elements such as nickel, cobalt, chromium and also molybdenum, tungsten, niobium, titanium and aluminium. These elements raise the recrystallization temperature of the solid solution and strengthen the inter-atomic links in the crystal lattice of austenite. They form the basis of a considerable number of austenitic heat-resistant alloys, such as steels E1726, G18B, Haines 88 and various cobalt alloys. The micro-structure of these alloys is briefly discussed, with reference to Fig 6 taken from a paper by Harris and Bailey. The heat resistance of austenitic steels and alloys can be improved by altering the nature and composition of the secondary phase. Alloys of the Nimonic type have very good mechanical properties at operational temperatures

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Metallurgical Advances in Heat-resisting Steels and Alloys for Gas-turbine Construction

because of structural conversions. The latter are associated with separation from the main solid solution of finely dispersed inclusions of a strong secondary phase, the dimensions and distribution of which depend on the heat-treatment conditions. For example, Fig 7 shows the micro-structure of alloy KhN80T which has been aged under conditions promoting coagulation of separated particles of the Y' phase. This sample was aged for Modern disperse-solid steels and 200 hours at 850 oc. alloys of the austenitic class are highly alloyed, which facilitates the formation of excess phases of complex Typical steels of this kind structure and high strength. are disc alloy, and nickel alloys of type EI437 and EI727, which have great creep strength and considerable resistance to elastic and small plastic strains. For example, the mean yield point of austenitic steels of the disc alloy type is 65 kg/mm² and remains unaltered at temperatures up to 650 oc. Materials are already available for the manufacture of gas turbines operating for a long time at 800 °C or for much shorter times at 900-1000 °C.

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Metallurgical Advances in Heat-resisting Steels and Alloys for Gas-turbine Construction

> Developments towards still higher operating temperatures will require the use of alloys based on metals of higher melting point than iron, nickel and cobalt or will require the use of powder metallurgy. Both lines of development are likely to be important for gas-turbine However, a great deal of research and manufacture. development will be required before ceramic and metalceramic alloys produced by new methods are widely used particularly in industrial gas turbines.
>
> There are 7 figures and 14 references, of which 12 are Soviet and 2 English.

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Nevskiy mashinostroitel nyy zavod ASSOCIATION: (Neva Building Works)

VYAZNIKOV, Nikolay Filippovich; YERMAKOV, Sergey Stepenovich; MIKHAY-LOV-MIKHEYEV, P.B., prof., retsenzent; KORYUKOV, M.I., dotsent, kand.tekhn.nauk, red.; CHFAS, M.A., red.izd-ve; KONTOROVICH, A.I., tekhn.red.

[Use of powder metallurgy products in industry] Primenenie isdelii poroshkovoi metallurgii v promyshlennosti. Moskva. Gos.nauchnotekhn.isd-vo meshinostroit.lit-ry. 1960. 187 p. (MIRA 13:6) (Powder metallurgy)

PHASE I BOOK EXPLOITATION

sov/5798

Mikhaylov-Mikheyev, Prokopiy Borisovich, Doctor of Technical Sciences

- Sprayochnik po metallicheskim materialam turbino- i motorostroyeniya (Handbook on Metals for Turbine and Engine Construction) Moscow, Mashgiz, 1961. 838 p. Errata slip inserted. 13,000 copies printed.
- Reviewer: V. I. Prosvirin, Professor, Doctor of Technical Sciences; Ed.: Ye. Ye. Levin, Candidate of Technical Sciences; Eds. of Publishing House: V. P. Vasil'yeva and G. A. Mitarchuk; Tech. Ed.: M. M. Peterson; Managing Ed. for Literature on the Design and Operation of Machines, Lemingrad Department, Mashgiz: F. I. Fetisov, Engineer.
- PURPOSE: This handbook is intended for technical personnel engaged in the design, manufacture, and handling of power-engineering equipment of various types and purposes.
- COVERAGE: The handbook contains physicomechanical characteristics of metals and alloys employed in the manufacture of power-engineering mechinery such as internal combustion engines, compressors, turbocom-

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Handbook on Metals (Cont.)

SOV/5798

pressors, and steam and gas turbines for various purposes. Metals described in the handbook are appraised according to their appearance in semifinished products, their mechanical properties at room or elevated temperatures, their endurance, creep resistance, scale resistance, and stability at high temperatures, and according to their physical and manufacturing properties. The handbook also contains graphs and tables indicating the effect of constructional, engineering, and operational factors on the strength of metals and alloys. No personalities are mentioned. There are 131 references: 127 Soviet and 4 English.

TABLE OF CONTENTS [Abridged]:

Conventional Symbols

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KEYLIN, Grigoriy Samuilovich; 10ZOVSKIY, Vladimir L'vovich; SITNIKOVA, Tamara Aleksandrovna; MIKHAYLOV-MIKHEYEV. P.B., red.; TELYASHOV, R.Kh., red.1sd-va; UVIKIS, V.L., tekhn. red.

[Effect of heat treatment of the properties of chromium stainless steels; from practices at the "Krasnogvardeets" Plant] Vliianie termicheskoi obrabotki na svoistva khromistykh nershaveiushchikh stalei; opyt zavoda "Krasnogvardeets." Leningrad, 1963. 17 p. (Leningradskii dom nauchno-tekhnicheskoi propegandy. Seriia: Metallovedenie i termicheskaia obrabotka, no.1) (MIRA 16:8)

(Steel, Stainless-Heat treatment)

SHEKALOV, Aleksandr Alekseyevich, kand. tekhn. nauk; MIKHAYLOV-MIKHEYEV, P.B., red.; SHILLING, V.A., red.izd-va; GVIRTS, V.L., tekhn.red.

[New alloys for cast permanent magnets] Novye splavy dlia litykh postoiannykh magnitov. Leningrad, 1963. 17 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Metallovedenie i termicheskaia obrabotka, no.3) (MIRA 16:11) (Alloys) (Magnets)

VYAZNIKOV, Nikolay Filippovich, kand. tekhn. nauk; POPANDOFULO, A.N., kand. tekhn. nauk; MIKHAYLOV-MIKHEYEV, P.B., red.; SHILLING, V.A., red.izd-va; GVIRTS, V.L., tekhn. red.

[Modorn high-speed steel and its heat treatment] Sovremennaia bystrorezhushchaia stal' i ee termicheskaia obrabotka. Leningrad, 1963. 21 p. (Leningradskiy dom nauchnotekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Metallovedenie i termicheskaia obrabotka, no.5)

(MIRA 16:12)

(Tool steel-Heat treatment)

LEVIN, Yevgeniy Yefimovich, kand. tekhn.nauk; PIVNIK, Yelena Markovna, kand. tekhn. nauk; MIKHAYLOV-MIKHEYEV, P.B., red.; FREGER, D.P., red.izd-va; BELCGUROVA, I.A., tekhn. red.

[Progressive methods of heat treatment for heat-resistant alloys high in addition elements] Progressivnye metody termicheskoi obrabotki vysokolegirovannykh zharoprochnykh splavov. Leningrad, 1963. 30 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Metallovedenie i termicheskaia obrabotka, no.4) (Heat-resistant alloys-Heat treatment) (MIRA 16:10)

MIRHAYLOV-MIKULINSKIY, M. S.

Cand. Technical Sci.

Docent, Moscow Energetics Inst. im. V. M. Molotov, -c1946-49-.

"New Mechanical Brake for Testing Motors," Elektrichest. No. 4, 1948;

"The Problem of the Demagnetization Effect of Lateral Armsture Reactance in Direct-Current Macrines," Vest. Elektr-Prom., No. 1, 1948;

"Commutation Currect Reaction on the Main Field of Direct Currect Machines," ibid., No. 7, 1949.

MINHAYLOV-MIKULINSKIY, DOCEMIT M. S.

PA 69T29

Motors, Electric

Brakes

"Bow Mechanical Brake for Testing Notors," Docent M.

B. Mikhaylov-Mikhlinskiy, Cand Tech Sci, 2t pp

"Elektrichest" No 4

Describes new system of dynamometers and brakes suggested to replace old system for testing motors.

Discribes hydrostatic dynamometer, and use of dynamometer for testing electrical motors.

69829

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7	Occurate tion Current Resotton on the Main Field of Direct Current Machines, Docent M. S. Sithhaylor-Mikulinskiy, Cand Tech Soi, Moscov of More Inst institution T. M. Molotov, his pp		T	Tage .		•	;
•	Commutation Current Resotion on the last of Direct Current Machines, Docent M. Mitherlor-Mikulinskiy, Cand Tech Soi, A. Montre Inst imeni V. M. Molotov, ha pp		Points out inadequacies of usual formula instanting computator current resotion: not take into account speed, nature of computating sections. Analygical case of linear delayed and acceledable.	3	commutation for various windings. magnetomotive force of the suppler commutation currents and indicates variation as current and speed ch	: 	
	on on Doc Tech		Points out inadequacies of usual for calculating computator current resolute take into account speed, nature and number of commutating sections. typical case of linear delayed and	(000M	od to the day		
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USSR/Electricity - Generators, Pulse Nov 51

"Electromagnetic Generators of Periodic Power-Frequency Pulses," Docent M. S. Mikhaylov-Mikulinskiy, Cand Tech Sci, Moscow Power Eng Inst imeni Molotov

"Elektrichestvo" No 11, pp 18-21

Shows that periodic pulses of various frequencies, form, length, etc., can be generated by elec machines which are simple in design and reliable in operation. Desoribes 2 types of electromagnetic pulse generators, i.e.,

201T57

USSR/Electricity - Generators, Pulse Nov 51 (Contd) unipolar and bipolar machines. Author was awarded Certificate of Authorship No 81725 for the 1st type, and he and Ye. V. Nitusov were awarded Certificate of Authorship No 48923 for the 2d type. Submitted 11 Apr 51.

HIKHVALTOA-HIMININGKIA' N' 2'' Docon¢

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001034030001-9"

KARASEV, Mikhail Vedorovich, professor; MIKHAYLOV-MIKULINSKIY, M.S., redaktor; VORONIN, K.P., tekhnicheskiy redaktor.

[Commutation of direct current machines] Kommutatsiia mashin postoiannogo toka. Moskva, Gos. energ.izd-vo, 1955. 142 p. (MIRA 8:6) (Commutation (Electricity))

9,6000 (3702,1067,1089)

S/110/60/000/002/005/005 E073/E455

AUTHORS:

Mikhaylov-Mikulinskiy, M.S., Candidate of Technical

Sciences and Alekseyev-Mokhov, S.N., Engineer

TITLE:

Bi-Rotating Meter for Measuring the Slip of

Asynchronous Motors

PERIODICAL: Vestnik elektropromyshlennosti, 1960, No.2, pp.77-78

The authors developed at MEI a new instrument (Author's Certificate No.121185 of 1959) for measuring the slip of A sketch of it is shown in Fig.1. asynchronous motors. consists of a bi-rotative synchronous motor, i.e. a motor whose rotor and stator can both rotate. The rotor is driven by reduction gearing; the stator drives a tachometer. spindle 1 with a rubber tip is connected via the reduction gearing 2 to the shaft of the rotor which will be referred to as The stator will be referred to in the the internal rotor. following as the external rotor and is connected by means of toothed gears with the shaft of the tachometer. With the synchronous motor switched on, the spindle tip of the instrument is pressed onto the shaft of the asynchronous motor whose slip is Card 1/4

88151 S/110/60/000/002/005/005 E073/E455

Bi-Rotating Meter for Measuring the Slip of Asynchronous Motors

The pointer of the tachometer indicates the slip to be measured. in percent. The principle of operation is as follows: the synchronous motor has as many poles as the asynchronous motor to be tested and rotates with a speed n1 (both motors are fed from the same supply system), The external rotor of the bi-rotative motor is so connected to the supply system that its field rotates in the direction of rotation of the asynchronous motor, and the internal rotor is coupled to the rotor of the motor under test. external rotor will rotate with the speed $n_1 - n$, due to the synchronous rotation of the field and of the internal rotor. external rotor being coupled to the tachometer, n_1 - n will be measured, the accuracy depending on the tachometer. lt is obvious that thus the slip will be measured more accurately than if the total rpm are measured. The instrument is suitable for indicating slips between 0.5 and 200%. In the case of 100% slip, the motor under test, and consequently also the spindle of the instrument, will be static. Since the slip is inversely proportional to the speed n₁ and the frequency, the measured slip Card 2/4

88151 S/110/60/000/002/005/005 E073/E455

Bi-Rotating Meter for Measuring the Slip of Asynchronous Motors

has to be divided by the instrument reading obtained when the spindle is braked. As a consequence, the instrument introduces the necessary frequency correction (the spindle of this instrument can be easily braked by hand). As a result of this feature, the instrument can also be used as a supply-frequency meter within a wide range of frequencies. Furthermore, it is suitable for continuous testing of tachometers. As it is available at present, the instrument is fully suitable for industrial use. If necessary, a single instrument can be used for the frequency ranges 50 to 150 and 200 to 500 cps; at the latter frequencies, the instrument is particularly useful since the slip cannot be measured satisfactorily by stroboscopic methods or by induction, even for very small slip planes. Tests of the instrument at the works Vladimir Il'ich, KhELZ, KEMZ and "Krasnyy metallist" showed that it will be very useful in test-stands and laboratories. There are 2 figures.

SUBMITTED: July 24, 1959

Card 3/4

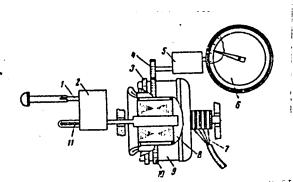
88151 S/110/60/000/002/005/005 E073/E455

Bi-Rotating Meter for Measuring the Slip of Asynchronous Motors

Fig.1. Sketch of the Instrument

- 1 Spindle with rubber tip
- 2 reduction gearing
- 3 additional scale
- 4 transmission gear
- 5 reduction gearing to the tacho-
- meter used as a range switch 6 - scale of the tachometer
- graduated in percent of slip
- 7 current supply
- 8'- internal rotor
- 9 external rotor
- 10 gear fitted on the external rotor
- 11 switch for changing the number of poles.

Card 4/4



13:00

55

MIKHAYLOV-HIKULINSKIY, Mikhail Samovlovich, kand.tekhn.nauk, dotsent

Fundamental magnetic losses in electric machines with two rotating fields. Izv. vys. ucheb. zav; elektromekh. 3 no.8:77-83 '60.

(MIRA 13:9)

1. Moskovskiy energeticheskiy institut.
(Frequency changers) (Electric machinery)

KARASEV, Mikhail Fedorovich; MIKHAYLOV-MIKULINSKIY, M.S., red.; BORUNOV, N.I., tekhn. red.

7

Q

[Commutation in collector-type d.c. machinery] Kommutatsiia kollektivnykh mashin postoiannogo toka. Moskwa, Gos. energ. izd-wo 1961. 223 p. (MIRA 14:10) (Electric machinery-Direct current)

MIKHAYLOV-MIKULINSKIY, Mikhail Samoylovich, kand.tekhn.name, dotsent

Magnetic stress forces in electrical machines with two rotating magnetic fields. Izv. vys. uch. zav.; elektromekh. 5 no.8: 382-392 '62. (MIRA 15:8)

1. Kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta.

(Electric machinery) (Magnetic fields)

MIKHAYLOV-MIKULINSKIY, Mikhail Samoylovich, kand.tekhn.nauk, dotsent

Calculation of the magnetic circuits of electrical machines with two rotating fields. Izv.vys.ucheb.zav.; elektromekh. 5 no.10:1115-1131 62. (MIRA 15:11)

1. Moskovskiy energeticheskiy institut.
(Magnetic circuits) (Electric machinery)
(Electric current converters)

MIKHAYLOV-MIKULINSKIY, M.S., kand. tekhn. nauk, dots.; ALEKSEYEV-MOKHOV, S.N., assistent

Calculation of the magnetic circuit of a synchronous machine. Trudy MEI no.39:65-68 '62. (MIRA 17:6)

MIKHAYLOV-MIKULINSKIY, Mikhail Samoylovich, kand.tekhn.nauk, dotsent

Comments on V.V.Fetisov's article "Calculation of the inductance of the armature circuit of a noncompensated d.c. machine taking into account the saturation of the toothed zone." Izv. vys. ucheb. zav.; elektromekh. 7 no.11:1393 64.

1. Moskovskiy energeticheskiy institut.

CIA-RDP86-00513R001034030001-9"

APPROVED FOR RELEASE: 07/12/2001

L 1259-66 EPA(s)-2/EWT(1)

ACCESSION NR: AP5024375

UR/0286/65/000/015/0052/0052

621.313.333

AUTHOR: Mikhaylov-Mikulinskiy, M. S.; Alekseyev-Mokhov, S. N.

TITLE: A motor with a rolling rotor. Class 21, No. 173308

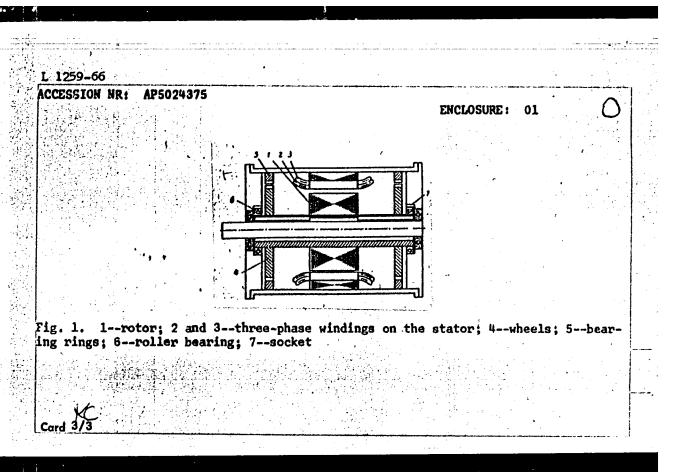
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 52

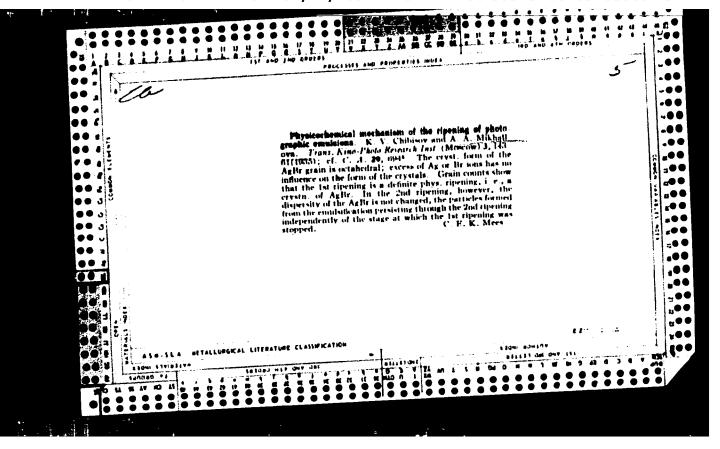
TOPIC TAGS: electric motor, electric rotating equipment 11,44,55

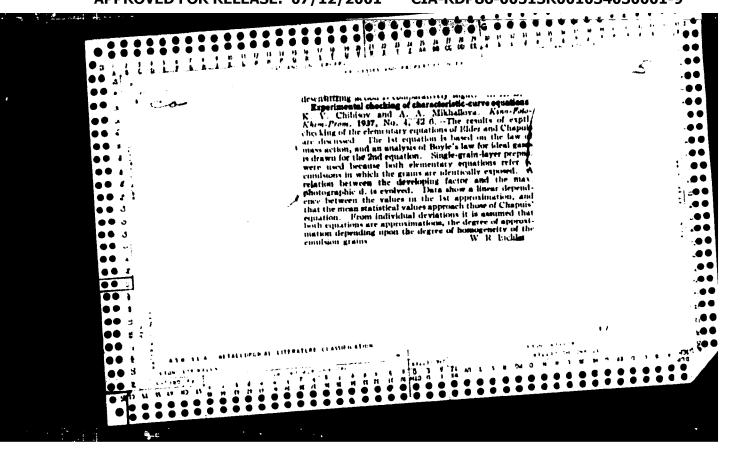
ABSTRACT: This Author's Certificate introduces: 1. A motor with a rolling rotor and two three-phase windings on the stator. Both these windings have the same number of pole pairs which are fed from a common circuit or from circuits with equal frequencies. The operational reliability of the motor is improved by mounting wheels on both ends of the rotor shaft which roll on bearing rings fastened into the stator frame. 2. A modification of this motor designed for synchronous speed. The wheels on the ends of the rotor shaft have teeth which mesh with teeth in the bearing rings. Roller bearings are also fastened to the rotor shaft. These bearings are located in sockets hollowed out of the motor housing. The difference between the diameter of

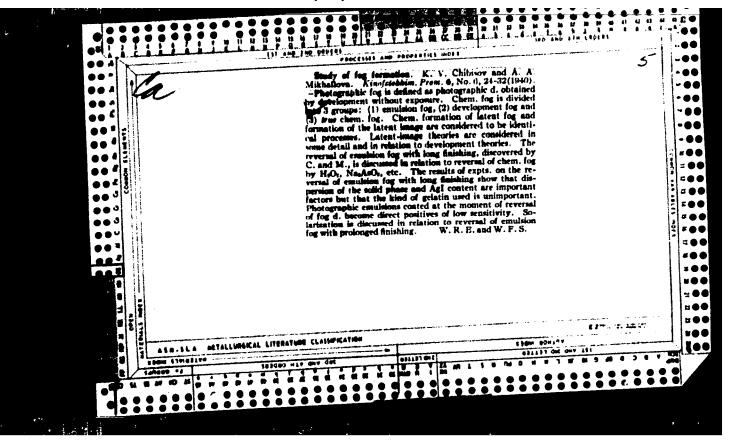
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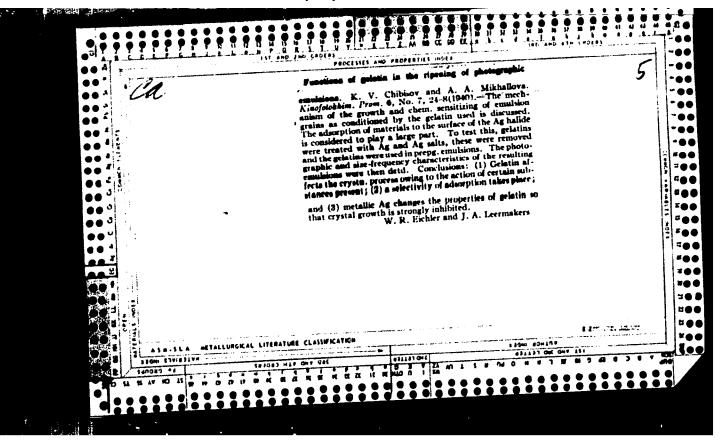
A	ACCESSION NR: AP5024375			: O	
t	he socket and that of the outer blesign diameters of the gears.	earing ring is the	same as the differ	rence in the	
A	ASSOCIATION: none				
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N	10 REF 80V: 000	OTHER: 000			
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	Card 2/3				











MIKHAYIOVA, A. A.

"New Data on the Nature of Photographic Sensitivity," Dokl. AN SSSR, 54, Bo.8, 1946

MIKHAYLOVA, A. A. Cand. Chem. 201.

Dissertation: "Microanalytical Investigation of Microchemical Reactions During the Ageing of Photographic Emulsion." Moscow Order of Lenin State U imeni M. V. Lomonosov, 23 Apr 47.

SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)

MIKHATLOVA, A. A.

K. V. CHIBISOV, A. A. TITOV and A. A. MIKHAILOVA

"Effect of the Topography of Sensitivity Centers upon the Photographis Properties of an Emulsion (Communication 101), Trans Kino-Foto Scientific Research Institute USSR, No. 8, 105-114, 1947 (Printed in 1948).

These are experienced workers, but their results must be regarded with caution since it has not been ##1### demonstrated in our laboratores that their analytical methods are accumate.

IX

MIKHAYLOVA, A. A.

"The Nature of Photosensitivity and the Mechanism of the Processes Taking Place in the Synthesis of Photographic Emulsions," Trudy NIKFI, 1948

MIKHAYLOVA A.A. GHIBISOV, K.V.

Methods of microchemical analysis of the solid phase of a photographic emulsion. Trudy MIRFI no.8:54-74 48. (MIRA 11:5) (Photographic emulsions)

CHIBISOV, K.V.; MIKHAYLOVA, A.A.

Topochemical transformations during the ripening of photographic emulsions. Trudy NIKFI no.8:75-94 48. (MIRA 11:5) (Photographic emulsions)

CHIBISOV, K.V.; TITOV, A.A.; MIKHAYLOVA, A.A.

Influence of the topography of centers of sensitivity on the photographic properties of an emulsion. Trudy NIKFI no.8:105-114 48.

(Photographic emulsions) (MIRK 11:5)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034030001-9"

MIKHAYLOVA, A. A.

"Research on the Mechanism of Ripening of Photographic Emplsions. I. The 'Second' Ripening (The Role of Gelatin, the Effect of Temperature and of the Concentration of Bromine Ions)," Zhur. Fiz. Khim., 23, No.12, 1949

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034030001-9

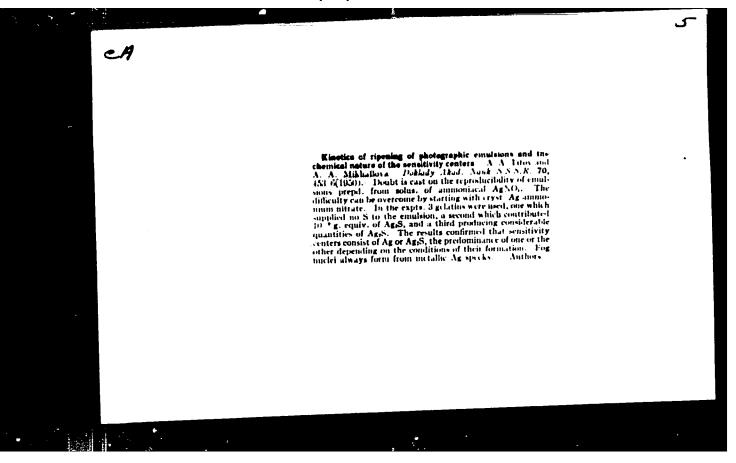
Miller M., L. L.

21568

MIKHAYLOVA, A. A.

Stroyeniye i vozniknoveniye dentina u amfibiy.
Doklady Akad. nauk SSSR, Novaya Seriya, t. IXVII, No. 2, 1949, s. 369 - 71.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.



CHIBISOV, K. V.; TITOV, A. A .; MIKHAYLOVA, A. A.

Photochemistry

Nature of the centers of photo-sensitivity and the part played by gelatin in their formation. Usp. nanch. fot., No. 1, 1951.

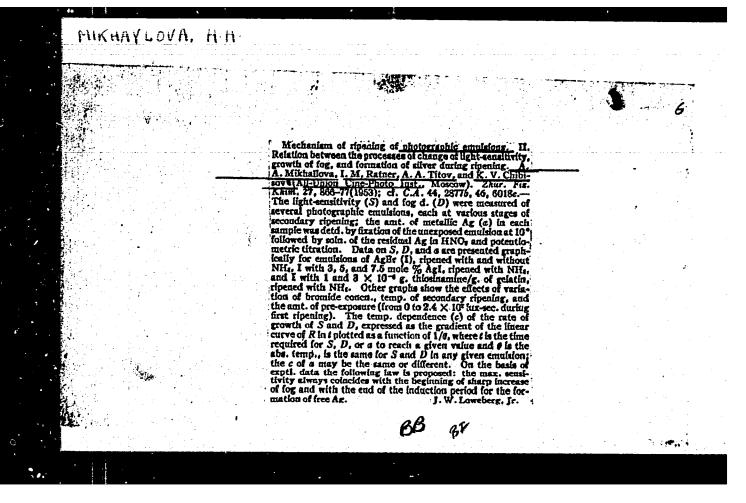
9. Monthly List of Russian Accessions, Library of Congress, June XXXXXX, Uncl.

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034030001-9

	MIKHAYLOVH, M-M.		
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- م ن		The effect of sulfur compounds on the kinetics of the chemical ripening of photographic smulsions. K. V. Chibisor, A. A. Titov, and A. A. Alkhallova. Doklady Akad. Nauk S.S.S.R. 78, 319-22(1951); cf. C.A. 44, 225776, 8805a; 45, 1443g.—To det. the effect of S compounds on the secondary aging of cruulsions, the influence of thissing	
•		amine and Nasho on the sensitizing action was stadied. The results indicate that in the aging process no Ags I is formed in the emulsion. The S compose formed on the	
		formed in the emulsion. The S country, the S-bearing surface of the AgBr under the influence of the S-bearing components of the gelatin have no sensitizing effect. These composes, only increase the rate of chem, aging in so much as they increase the rate of the reduction process—the auto-catalytic process of formation of Ag centers of photosensitivity. J. Rovtar Leach.	
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CIA-RDP86-00513R001034030001-9



MIKHAYLOVA, A. A.

261T14

USSR/Chemistry - Photography

Jan 53

"The Oneness of the Nature of Sensitization and Desensitization of Photographic Emulsions," K.V. Chibisov, Corr Memb, Acad Sci USSR; A.A. Mikhaylova and B.G. Varshaver, All-Union Sci-Res Inst of Photography

DAN, Vol 88, No 3, pp 519-522

Action of desensitizers on chem development in the emulsion was studied and their action compared with that when accompanied by antifilming agents. Pinacryptol green served as

261T14

the desensitizer and benzotriazol as the antifilming agent. The benzotriazol slows the process considerably but does not lower the sensitivity max. The results indicate the same mechanism exists for both processes.

MIKHAYLOVA, A.A.; CHIBISOV, I.K.

Various forms of desensitization. Usp.nauch.fot.no.4:144-149
155. (Photographic emulsions) (MIRA 9:4)

MIKHAYLOVA, A. A., BRAUN, Y. L. and CHIBISOV, K. V.

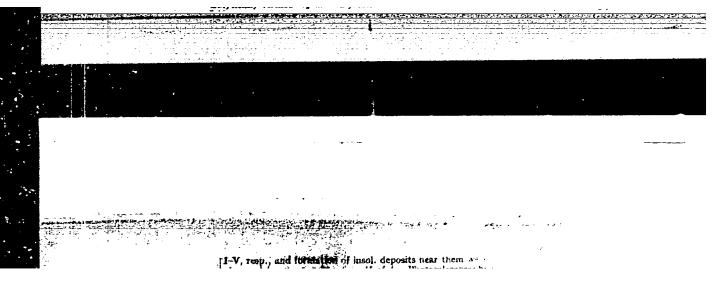
"On the Importance of Labile Sulphur Compounds in the Photographic Emulsion," a paper given at the International Conference on Scientific Photography, Cologne, 24-27 Sep 1956.

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Vignetions of	compounds wit	th labita suff	ur in the photo	
graphic emulai K. V. Chibno	on A A Mil			
Thur Nauch	Priklad Pot	i Kinemato	grafii las.	•
(1956); cf Ki	rillov and Ch.	, sò std ⊕81	a order to	
the role of 8 Ca	mpus. in photo	trabuic emin	stons (E), Lapp	
mann e. prepo	from Agibr w	ere treated w	ith allyithsoure	:4)

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034030001-9



"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034030001-9

AUTHORS:

Karpova, A. L., <u>Mikhaylova</u>, A. A., SOV/20-121-1-37/55 Chibisov, K. V., Corresponding Member, Academy of Sciences, USSR

TITLE:

On the Photographic Activity of Gelatin (O fotograficheskoy

aktivnosti zhelatiny)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 1,

pp. 133 - 135 (USSR)

ABSTRACT:

The authors tried to remove the admixtures from gelatin by means of adsorbers and to separate them by means of an electrodialysis with the aim to investigate the influence of these admixtures on the chemical "ripening". Various adsorbers exhibit a selective action and only some resins with ion exchange were suited for a practically complete removal of all active admixtures. By this the different gelatin samples were given the same properties and turned into slowly acting gelatin. Also electrodialysis removes the active admixtures and renders gelatin inert. If a five-chamber device is applied the admixtures can be separated in the form of an anodic and a cathodic fraction by electrodialysis. The substances of the cathode fraction do not directly interact with the silver

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ions. The compounds with unstable sulfur, the reducing agents,

On the Photographic Activity of Gelatin

SOV/20-121-1-37/55

and the complex forming substances of the first kind, however, turn into the anode fraction. According to photographic investigations, the solution of the cathode fraction slows the ripening down while the anode fraction accelerates it. The photographic effect of the gelatin during ripening is realized by its two components: The macro-component, i.e. the albumins of the gelatin, exhibits a protective effect and acts reducingly; the micro-components control the velocity of the chemical ripening. There are 3 figures, 2 tables, and 3 references, which are Soviet.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (All-Union Scientific Research Institute of Photography and Cinematography)

SUBMITTED:

March 18, 1958

Card 2/3

SOV/77-4-3-4/16 23(

AUTHORS: Karpova, A.L., Mikhaylova, A.A., Chibisov, K.V.

TITLE: On the Photographic Activity of Gelatine

II. An Increase in the Kinetic Activity of Gelatine

Zhurnal nauchnoy i prikladnoy fotografii i kinemato-PERIODICAL:

grafii, 1959, Vol 4, Nr 3, pp 183-192 (USSR)

This is a study of the effect of sodium thiosulfate ABSTRACT:

on the second ripening process of gelatine solutions, shown on the example of three different gelatine com-On the basis of experimentally obtained data, the authors deduced a general equation, expressing with it the dependence of the rate of second ripening on the quantity of natural and added accelerators. Parallel to these experiments, the authors studied the effect of other sulfurous sensitizers and also of bromine (silver) ion concentration. Different

quantitites of sodium thiosulfate and the solid phase

Card 1/7 separated from the colloid of the first ripening pro-

CIA-RDP86-00513R001034030001-9"

APPROVED FOR RELEASE: 07/12/2001

On the Photographic Activity of Gelatine. II. An Increase in the Kinetic Activity of Gelatine

cess were added to solutions of gelatine with different activity coefficients. The solid phase contained 3 mol. % AgJ in addition to AgBr. The authors started from the assumption that in the stage of chemical ripening sodium thiosulfate acts only as a complexforming substance, causing acceleration of chemical ripening. The added quantity A', therefore, was added to the quantity A of natural accelerators in the gelatine. These data, in connection with the quantity B of natural retarders, served as the basis for the calculation of the activity coefficient $(K = \frac{A + A'}{B})$.

Table 1 demonstrates the results obtained. It contains in addition the values \mathbf{z} (time required to reach the maximum light sensitivity) and \mathbf{z} ($\mathbf{z} = \mathbf{z}$). The values \mathbf{z} were calculated with the aid of the curves of change in light sensitivity for each concentration of

Card 2/7

On the Photographic Activity of Gelatine. II. An Increase in the Kinetic Activity of Gelatine

Na₂S₂O₃ introduced into the emulsion. This calculation was carried out to demonstrate the subordination of the values to the already found / reference 2 7 linear dependence between the activity coefficient and the rate of chemical ripening and, consequently, to confirm the assumed role of Na₂S₂O₃ in this process. The results confirm this assumption, showing that Na₂S₂O₃ behaves like those natural complex-forming components, which have most affinity to the silver ions. The obtained values are characterized by two prominent features: 1) A strict dependence of To on the conditions of emulsion synthesis, and 2) fluctuations of the individual values of this magnitude within parallel experiments. This shows that To (time required to reach the maximum

Card 3/7

On the Photographic Activity of Gelatine. II. An Increase in the Kinetic Activity of Gelatine •

light sensitivity, if k=1) is a very sensitive magnitude indicative of the observation of constancy of the established synthesis conditions. On the basis of their experiments, which confirmed the role of Na₂S₂O₃ as accelerator during the ripening process, the authors enlarged the previously obtained formula

To = $\frac{A}{B}$ E by adding A' to the numerator of the activity coefficient. The equation (in its final form:

A' To B $\frac{1}{2}$ - A), on the basis of the dependency

A'7 (see graph 1, which represents this dependency for the three series of experiments in table 1), makes it possible to determine the content of accelerators and retarders in gelatine. In order to clarify the role of sodium thiosulfate, the authors

Card 4/7

On the Photographic Activity of Gelatine. II. An Increase in the Kinetic Activity of Gelatine

considered it suitable to compare its effect on chemical ripening with the effect of other compounds with an unstable sulphur component. A study of the effect of thiourea, sodium tetrathionate and trithionate and potassium rodanide revealed that, with the exception of thiourea, these compounds are not subject to the general equation (graphs 2-4). They showed a retarding effect on the ripening process. Finally, the authors studied the effect of pAg (pBr) on the kinetics of chemical ripening. Graph 5 shows curves (based on previously described experimental data), which represent the dependence of the rate of ripening on pAg for bromine and bromo-iodine emulsions. The curves (table 4) show the complicated character of this dependency. A further factor is the instability of the maximum light sensitivity (section 2 of graph 5), which can be reached at various values

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On the Photographic Activity of Gelatine. II. An Increase in the Kinetic Activity of Gelatine

of pAg. Optimum pAg can be assumed in the case, when the maximum light sensitivity has been reached. The strong effect of the nature of the gelatine component on this phenomenon however has to be taken into consideration. This factor also plays a role in the dependence of the change of maximum sensitivity on pAg. The last section is a theoretical generalization of the results. Table 4 is a synopsis of the effects exercised by the various substances on the rate of ripening, the maximum of light sensitivity and the fog phenomenon. The latter is considered in connection with the maxima of light sensitivity. The authors mention the Soviet scientist V.A.Bekunov / reference 7_7, who proved the linear dependence (pAg, 1). There

Card 6/7

are 5 tables, 5 graphs and 8 references, 6 of which are

On the Photographic Activity of Gelatine. the Kinetic Activity of Gelatine An Increase in II.

Soviet and 2 English.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy kinofotoin-stitut (NIKFI) (All-Union Scientific Research In-stitute for Motion Pictures and Photography (NIKFI))

22 August, 1957 SUBMITTED:

Card 7/7

MIKHAYLOVA, A.A.

Erythrocyte gelatin test in the diagnosis of immune herolytic anemias. Probl. gemat. i perel. krovi 9 no.10:49-51 6 484.

(MIFA 18:3)

1. Gor'kovskaya oblastnaya stantsiya pereliviniya krovi (cir. N.Ya. Klimova).

BORODKINA, M.S.; MIKHAYLOVA, A.A.; SHEBERSTOV, V.I.

Sensitivity reaction of photographic gelatins to labile sulfur. Zhur.nauch.i prikl.fot. i kin. 10 nc.3:220-221 My-Je 155.

(MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovateliskiy kinofotoinativut.

MIKHAYLOVA, A.A.

Cystographic study of patients before and after herniotomy.
Urologiia 23 no.3:45-49 My-Je '58 (MIRA 11:6)

1. Is kafedry obshchey khirurgii (zav. - prof. I.M. Tal'man)
Leningradskogo sanitarno-gigiyenicheskogo neditsinskogo instituta.

(BLADDER, radiography
cystography before dafter herniotomy (Rus))

(HERNIA, surg.
prep. & postop. cystography (Rus))

POLIVODA, A.I.; MIKHAYLOVA, A.A.

Studying the electric constants of liver tissues in rats.

Biofizika 5 no. 5:612-616 '60. (MIRA 13:10)

(LIVER) (ELECTROPHYSIOLOGY)

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